

CLAIMS

I claim:

- 5 1. A power supply cable for providing DC power from a power supply to a microprocessor of a personal computer comprising:
- 10 a plate-cable includes a first and a second metal plates insulated with an insulation layer between said first and second metal plates; and
- 15 a plurality of capacitors disposed on said plate cable wherein each of said capacitors having a first and second electrical terminals and each of said first and second electrical terminals connected to one of said first and second metal layers provided for storing electrical charges therein for transmitting through said metal layers for supplying power to said microprocessor.
- 20 2. The power supply cable of claim 1 wherein:
- 25 said plurality of capacitors disposed on said first metal plate with said first electrical terminal for each of said capacitors connected to said first metal plate; and
- 30 said plate-cable further includes a plurality of via-connectors penetrating said insulation layer for connecting said second electrical terminal for each of said capacitors to said second metal plate.
- 35 3. The power supply cable of claim 1 wherein:
- said plate-cable further includes multiple insulated plate-segments each of said plate-segment is provided for supplying power of a different voltage to said microprocessor.

4. The power supply cable of claim 1 further comprising:

a microprocessor connector socket soldering to an output
end said plate-cable.
5. The power supply cable of claim 1 wherein:

said first and second metal plates are cooper plates.
6. The power supply cable of claim 1 wherein:

said insulation layer for insulating said first and second
metal plates is a krypton layer.
7. The power supply cable of claim 1 wherein:

said plate-cable further includes several soldering holes each
is provided for soldering to a connector for connecting to
said power supply.
8. The power supply cable of claim 4 wherein:

said microprocessor connector socket further includes a
signal cable for providing signals from said microprocessor
to said power supply.
9. A power supply cable for providing DC power from a
power supply to an electronic device comprising:

a plate-cable includes two metal plates insulated with an
insulation layer having multiple insulated plate-segments
each of said plate-segment is provided for supplying power
of a different voltage to said electronic device.

10. The power supply cable of claim 9 further comprising:

a plurality of capacitors disposed on said plate cable and electrically connected between said metal plates.

5

11. The power supply cable of claim 10 wherein:

said plurality of capacitors disposed on one a first plate of said two metal plates with a first electrical terminal for each of said capacitors connected to said first metal plate; and

10

said plate-cable further includes a plurality of via-connectors penetrating said insulation layer for connecting a second electrical terminal for each of said capacitors to a second plate of said two metal plates.

15

12. The power supply cable of claim 9 further comprising:

an electronic device connector socket soldering to an output end said plate-cable.

20

13. The power supply cable of claim 9 wherein:

said metal plates are cooper plates.

25

14. The power supply cable of claim 9 wherein:

said insulation layer for insulating said metal plates is a krypton layer.

30

15. The power supply cable of claim 9 wherein:

said plate-cable further includes several soldering holes each is provided for soldering to a connector for connecting to said power supply.

35

16. The power supply cable of claim 12 wherein:

said electronic device connector socket further includes a
signal cable for providing signals from said electronic device
to said power supply.

5

17. A power supply cable for providing DC power from a
power supply to an electronic device comprising:

a plate-cable includes two metal plates insulated with an
insulation layer ; and

10

a plurality of capacitors disposed on said plate cable and
electrically connected between said metal plates.

15

18. A method for configuring a power supply cable to provide
DC power from a power supply to a microprocessor of a personal
computer comprising:

forming a plate-cable by employing a first and a second
metal plates insulated with an insulation layer between said
first and second metal plates; and

20

disposing a plurality of capacitors on said plate cable and
connecting a first electrical terminal for each of said
capacitor to said first metal plate and connecting a second
electrical terminal for each of said capacitor to said second
metal plate for storing electrical charges therein for
transmitting through said metal layers for supplying power
to said microprocessor.

25

30

19. The method of claim 18 further comprising a step of:

forming a plurality of via-connectors penetrating said insulation layer for connecting said second electrical terminal for each of said capacitors to said second metal plate.

20. The method of claim 18 further comprising a step of:

dividing said plate-cable into multiple insulated plate-segments for supplying power of a segment-specific voltage to said microprocessor through each of said plate-segment.

21. The method claim 18 further comprising:

soldering a microprocessor connector socket to an output end said plate-cable.

22. The method claim 18 wherein:

said step of forming said plate-cable with said metal plates is a step of forming said plate-cable with cooper plates.

23. The method of claim 18 wherein:

Said method of insulating said metal plates is a step of insulating said metal plates with a kapton layer.

24. The method of claim 18 further comprising a step of:

forming several soldering holes on said plate-cable for soldering to a connector for connecting to said power supply.

25. The method of claim 21 further comprising:

connecting a signal cable to said microprocessor connector
socket for providing signals from said microprocessor to
said power supply.

5

26. A method for configuring a power supply cable for
providing DC power from a power supply to an electronic device
comprising:

10

forming a plate-cable by two metal plates and insulating
said metal plates with an insulation layer and dividing said
plate-cable into multiple insulated plate-segments for
providing segment-specific voltage to said electronic device.

15

10045974-014507
20510-46900

27. The method of claim 26 further comprising:

disposing a plurality of capacitors on said plate cable and
electrically connected between said metal plates.

5

28. A method of configuring a power supply cable for providing
DC power from a power supply to an electronic device comprising:

forming a plate-cable by two metal plates and insulating
said metal plates with an insulation layer;

10

disposing a plurality of capacitors on said plate cable and
electrically connecting each of said capacitors between said
metal plates.

15

20250710 14:54:00